

# Cometary Chip 12

## Track 16

### Images

Aerogel Cell:  
From unknown cell

Aerogel Chip:

Track and Grains:  
[12A\\_before\\_particle\\_removal.jpg](#)  
[12A\\_before\\_particle\\_removal3.jpg](#)  
[12A2\\_before\\_particle\\_removal2.jpg](#)

Microtomed samples:

#### Grain 1:

[FC12,0,16,1\\_Frag12A2Xlow.pdf](#)

#### Grain 2:

[16,2\\_Frag12A2Ylow.pdf](#)

#### Grain 3:

[16,3\\_Frag12A2Zlow.pdf](#)

### Track History:

Chip 12 was found on the surface of the canister upon opening, and has not been tied to a specific cometary cell. Cut by Hope Ishii into two halves; 3 grains (1,2,3) plucked by Mike Zolensky from one half, embedded in epoxy and cut by Keiko Messenger 2/10/06.

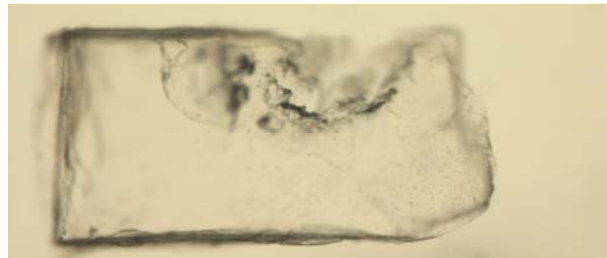
### Track Characteristics

Type: Cavity with grains along walls

Length: ~300µm

Grain diameter  $\leq 10\mu\text{m}$  each

### Allocation History



## Results

### Grain 1

Only sample preparation picture.

### Grain 2

Only sample preparation pictures.

### Grain 3

T. Nakamura: Al, Si and Ti, Si rich particles.

T. Mikouchi (FEGSEM): He examined a potted butt which contains two grains exposed on the surface. One of them is a mostly silica-rich amorphous phase possibly contaminated with aerogel. The other grain (2.5 x 1.5 microns) is made of a K-rich phase, probably a K-feldspar. Neither Ca nor Na was detected. It contains only Si, Al and K. Tried EBSD for this grain, but could not obtain diffraction.

Weisberg (SEM EDS): Sees S and Mg by EDS. Possible K-feldspar.

**Data Files:** Not available yet